



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Gyula Hadlaczký
Serial No. : 10/808,689
Filed : March 24, 2004
Customer No.: 20985
Title : ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR
PREPARING ARTIFICIAL CHROMOSOMES

Art Unit : 1632
Examiner : Unknown
Confirmation No.: 6587

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

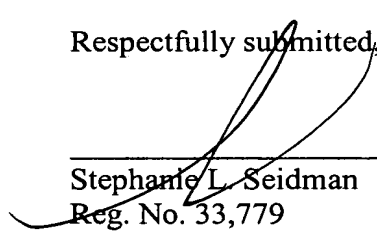
TRANSMITTAL LETTER

Dear Sir:

Transmitted herewith are an Information Disclosure Statement and Forms PTO-1449 (33 pages), and some of the cited references for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a first office action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 06-1050, as stated below:

☒ The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,


Stephanie L. Seidman
Reg. No. 33,779

Attorney Docket No. 17084-004017 (24061-402P)

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CERTIFICATE OF MAILING BY "EXPRESS MAIL"
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I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.


Stephanie L. Seidman



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INFORMATION DISCLOSURE STATEMENT
IN ACCORDANCE WITH 37 C.F.R. 1.97-1.98

Dear Sir:

Because this Information Disclosure Statement is filed before the receipt of a First Office Action on the Merits for the above-captioned application a fee is not required. If no proper payment is enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1050.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (33 pages) and hard copies of the references marked with a double asterisk **, in the "Examiner Initial" column, are provided herewith in connection with the above-captioned application. In accordance with 37 C.F.R. §1.98(d), copies of the references listed on the Form PTO-1449, not marked with double asterisk, are not provided herewith as they have been previously

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1450, Alexandria, VA, 22313-1450.

Stephani L. Seidman

provided in connection with U.S. Serial Nos. 09/096,648 and 08/629,822, which are relied upon for an earlier filing date in accordance with 35 U.S.C. §120.

The documents cited on the Forms PTO-1449 are in the English language with the exception of Items BZ, CB, and CW. Items BZ, CB, and CW (European Patent Applications EP0240373, EP0254315 and PCT Patent Publication WO 94/24300 respectively) are in the French language and were previously supplied with English language Derwent abstracts (Item No. GG, GH, and FAA, respectively). Hence, in accordance with the requirements of 37 C.F.R. 1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

The Examiner's attention is directed to the cited reference Oberle *et al.* (*Biochimica et Biophysica Acta* (2004) 1676:223-230). Oberle *et al.* describes methods for delivering artificial chromosome expression systems (ACEs) to cells. Specifically, Oberle *et al.* demonstrates that when cells are treated with ultrasound energy and the cationic lipid SAINT-2 or DOTAP prior to contacting them with ACEs, the ACEs are delivered into the cells. Oberle *et al.* states that, prior to its publication, there was no suitable procedure for delivering ACEs into cells because the size of the ACEs was too large to allow internalization of ACEs complexed with cationic lipids or polymers (see, *e.g.*, Abstract at page 223 and page 224, col. 1, para. 3). Oberle *et al.* further states that incubation of ACEs with cationic lipids such as SAINT-2 and DOTAP to prepare ACEs/lipid complexes leads to partial unraveling of the ACEs with a loss of their condensed structure (see page 225, col. 1, para. 2). Oberle *et al.* does not provide any data to support these statements.

The instant application, as well as in U.S. Patent No. 6,025,155, which is a parent application of the instant application, however, describes the introduction of artificial chromosomes, including ACEs, into cells by lipid-mediated transfection (see, *e.g.*, p. 11, lines 26 and 23; p. 23, line 31; p. 33, line 28; p. 48, line 20; p. 49 line 29; p. 83, line 2, and p. 179, line 5 of the instant application).

Applicant also makes known to the Examiner the following U.S. and International applications, which are commonly owned and/or have one or more inventors in common.

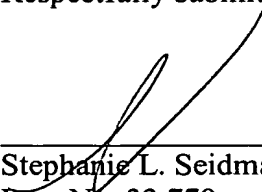
Serial No.	Filing	Date	Docket No.	Patent No.	(Date of Issue)
09/096,648	06/12/98		24601-402A	6,743,967	(07/01/04)
09/724,726	11/28/00		24601-402E		
09/724,872	11/28/00		24601-402F		
09/799,462	04/17/01		24601-402H		
09/815,979	03/22/01		24601-402I		
10/125,767	04/17/02		24601-402J		
10/151,078	05/16/02		24601-402K		
10/151,081	05/16/02		24601-402L		
10/219,694	08/14/02		24601-402M		
10/782,129	03/24/04		24601-402O		
09/815,979	03/22/01		24601-416		
09/815,981	03/22/01		24601-416B		
10/086,745	02/28/02		24601-416C		
10/235,119	09/03/02		24601-416D		
10/161,408	05/30/02		24601-419		
10/161,403	05/30/02		24601-420		
10/428,653	05/01/03		24601-426	0224522-A1	(12/04/03)
PCT/US02/09262	03/22/02		24601-416PC		
PCT/US02/17451	05/30/02		24601-419PC		
PCT/US02/17452	05/30/02		24601-420PC		

Although these documents and information are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. 1.56(b) exists. Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application

Applicant : Gyula Hadlaczky
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Information Disclosure Statement
Page : 4 of 4

Attorney's Docket No.: 17084-004017 /24601-402P

Respectfully submitted,



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Reg. No. 33,779

Attorney Docket No. 17084-004017 (24601-402P)

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17084-004017	Application No. 10/808,689
List of Patents and Publications for Applicant's Information Disclosure Statement (37 CFR § 1.98(b))		Applicant Gyula Hadlaczky	
		Filing Date March 24, 2004	Group Art Unit 1632

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A	4,441,972	4/10/84	Pohl	204	180	4/8/83
	B	4,476,004	10/09/84	Pohl	204	299	10/26/83
	C	4,518,584	5/21/85	Mark et al.	424	85	12/20/83
	D	4,608,339	8/2686	Yoakum et al.	435	172.2	10/25/83
	E	4,656,134	04/07/87	Ringold	435	91	04/12/85
	F	4,684,611	8/4/87	Schilperoort et al.	435	172.3	7/29/85
	G	4,686,186	8/11/87	Sugden	435	243	9/26/84
	H	4,736,866	04/12/88	Leder et al.	800	1	06/22/84
	I	4,784,737	11/15/88	Ray et al.	204	180.1	04/18/86
	J	4,801,540	01/31/89	Hiatt et al.	435	172.3	01/02/87
	K	4,806,476	02/21/89	Coons et al.	435	172.2	08/13/85
	L	4,873,191	10/10/89	Wagner et al.	435	172.3	08/18/86
	M	4,873,316	10/10/89	Meade, et al.	530	412	06/23/87
	N	4,906,576	03/06/90	Marshall, III	435	287	05/08/87
	O	4,923,814	05/08/90	Marshall, III	435	173	04/26/89
	P	4,935,350	06/19/90	Patel et al.	435	69.4	11/18/85
	Q	4,946,952	08/07/90	Kiefer	536	27	04/01/88
	R	4,955,378	9/11/90	Grasso	128	421	01/17/89
	S	4,970,162	11/13/90	Aksamit	435	240.26	11/13/85
	T	4,997,764	03/05/91	Dalla Favera	435	240.27	04/23/87
	U	5,081,018	01/14/92	Grummt et al.	435	69.1	02/13/91
	V	5,019,034	05/28/91	Weaver et al.	604	20	03/20/89
	W	5,021,344	06/04/91	Armau et al.	435	172.3	08/30/85
	X	5,063,162	11/05/91	Kiefer	435	270	05/09/90
	Y	5,118,620	06/02/92	Armau et al.	435	172.3	03/01/91

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Substitute Form PTO-1449 (Modified) List of Patents and Publications for Applicant's Information Disclosure Statement (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17084-004017	Application No. 10/808,689
	Applicant Gyula Hadlaczký		
	Filing Date March 24, 2004	Group Art Unit 1632	

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	Z	5,144,019	9/1/92	Rossi et al.	536	27	6/21/89
	AA	5,149,796	9/22/92	Rossi et al.	536	27	4/30/91
	AB	5,162,215	11/10/92	Bosselman et al.	435	172.3	9/22/88
	AC	5,215,914	6/1/93	Lo et al.	435	253.1	12/2/91
	AD	5,223,263	6/29/93	Hostetler et al.	424	4450	6/28/89
	AE	5,240,840	8/31/93	Feinberg et al.	435	172.3	4/5/91
	AF	5,240,846	8/31/93	Collins et al.	435	240.1	9/18/90
	AG	5,260,191	11/9/93	Yang	435	6	1/30/92
	AH	5,266,600	11/30/93	Tenmyo et al.	514	691	10/30/92
	AI	5,272,262	12/21/93	Rossi et al.	536	23.2	10/19/90
	AJ	5,288,625	2/22/94	Hadlaczký	435	172.2	9/13/91
	AK	5,292,658	3/8/94	Cormier et al.	435	252.33	6/17/93
	AL	5,298,429	3/29/94	Evans et al.	436	501	12/10/91
	AM	5,300,431	04/05/94	Pierce et al.	435	172.3	02/26/91
	AN	5,324,655	6/28/94	Kriegler et al.	435	240.2	2/18/92
	AO	5,354,674	10/11/94	Hodgson	435	172.3	10/29/92
	AP	5,358,866	10/25/94	Mullen et al.	435	240.2	7/3/91
	AQ	5,364,761	11/15/94	Ariga	435	6	11/5/92
	AR	5,387,742	02/07/95	Cordell	800	2	06/17/91
	AS	5,396,767	3/14/95	Suzuki	60	298	2/8/93
	AT	5,409,810	4/25/95	Larder et al.	435	5	12/1/92
	AU	5,413,914	5/9/95	Franzusoff	435	23	7/7/93
	AV	5,418,155	5/23/95	Cormier et al.	435	189	12/14/93
	AW	5,424,409	6/13/95	Ely et al.	536	23.71	9/29/89
	AX	5,434,086	7/18/95	Collins et al.	436	125	12/9/93

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U.S. Patent Documents

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	AY	5,434,340	07/18/95	Krimpenfort et al.	800	2	07/27/92
	AZ	5,436,392	7/25/95	Thomas et al.	800	205	12/21/92
	BA	5,449,604	9/12/95	Schellenberg et al.	435	6	10/21/92
	BB	5,453,357	9/26/95	Hogan	435	7.21	10/8/92
	BC	5,457,182	10/10/95	Weiderrecht et al.	530	402	02/15/94
	BD	5,461,032	10/24/95	Krapcho et al.	514	12	3/18/94
	BE	5,468,615	11/21/95	Chio et al.	435	7.2	7/1/93
	BF	5,468,634	11/21/95	Liu	435	240.2	1/13/95
	BG	5,470,708	11/28/95	Yang et al.	435	6	4/2/93
	BH	5,470,730	11/28/95	Greenberg et al.	435	172.3	8/8/94
	BI	5,482,928	1/9/96	De Bolle et al.	514	12	3/10/92
	BJ	5,489,520	2/6/96	Adams et al.	435	172.3	4/26/94
	BK	5,491,075	2/13/96	Desnick et al.	435	69.7	6/17/94
	BL	5,491,283	02/13/96	Groffen et al.	800	2	01/14/93
	BM	5,496,731	3/5/96	Xu et al.	435	320.1	3/25/93
	BN	5,501,662	3/26/96	Hofmann	604	20	9/12/94
	BO	5,501,967	3/26/96	Offringa et al.	435	172.3	7/6/93
	BP	5,503,999	4/2/96	Jilka et al.	435	172.3	1/3/95
	BQ	5,543,319	08/06/96	Fournier et al.	415	354	03/31/95
	BR	5,712,134	01/27/98	Hadlaczky	435	172.2	01/19/95
	BS	5,721,118	02/24/98	Scheffler	435	69.1	10/29/96
	BT	5,721,367	02/24/98	Kay et al.	800	2	06/05/95
	BU	5,891,691	04/06/99	Hadlaczky	435	172.3	10/21/96
	BV	6,025,155	02/15/00	Hadlackzky et al.	435	69.1	08/07/96
	BW	6,077,697	06/20/00	Hadlackzky et al.	435	172.3	07/15/96

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U.S. Patent Documents

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	BX	6,133,503	10/17/00	Scheffler	800	21	02/17/98

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	BY	0 208 491	01/14/87	A2				
	BZ	0 240 373	10/7/87	EP			X*	
	CA	0 247 494	12/02/87	A2				
	CB	0 254 315	1/17/88	EP A2, A3			X*	
	CC	0 254 315	1/27/88	EP B1				
	CD	0 264 166	04/20/88	A1				
	CE	0 279 582	08/24/88	A2				
	CF	0 350 052	01/10/90	EP				
	CG	0 375 406	06/27/90	EP A2				
	CH	0 473 253	03/04/92	EP				
	CI	0 532 050	9/14/92	EP A2				
	CJ	0 838 526	04/29/98	EPO				
	CK	82/04443	12/23/82	PCT				
	CL	88/00239	01/14/88	PCT				
	CM	88/01648	03/10/88	PCT				
	CN	89/09219	10/05/89	PCT				
	CO	91/00358	01/10/91	PCT				
	CP	91/05044	04/18/91	PCT				
	CQ	92/07080	04/30/92	PCT				
	CR	92/14819	09/03/92	PCT				
	CS	92/17582	10/15/92	PCT				
	CT	93/25567	12/23/93	PCT				

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							Yes	No
	CU	94/19456	09/01/94	PCT				
	CV	94/23049	10/13/94	PCT				
	CW	94/24300	10/27/94	PCT				X*
	CX	95/00178	01/05/95	PCT				
	CY	95/14769	06/01/95	PCT				
	CZ	95/20044	07/27/95	PCT				
	DA	95/22297	11/30/95	PCT				
	DB	95/29992	11/9/95	PCT				
	DC	95/32297	11/30/95	PCT				
	DD	96/40965	12/19/96	PCT				
	DE	97/07668	03/06/97	PCT				
	DF	97/07669	03/06/97	PCT				
	DG	97/16533	05/09/97	PCT				
	DH	97/40183	10/30/97	PCT				
	DI	98/08964	03/05/98	PCT				
**	DJ	98/13505	04/04/98	PCT				

Examiner Initial	Desig. ID	Document
	DK	Albertsen <i>et al.</i> , "Construction and characterization of a yeast artificial chromosome library containing seven haploid human genome equivalents", <i>PNAS</i> , <u>87</u> :4256-42-60 (2000)
	DL	Albrecht, <i>et al.</i> , "Cationic lipide mediated tranfer of c-abl and bcr antisense oligonucleotides to immature normal myeloid cells: Uptake, biological effects and modulation of gene expression", <i>Ann Hematol</i> 72:73-79, (1996).
**	DM	Ascenzioni et al., "Mammalian artifical chromosomes-vectors for somatic gene therapy," <i>Cancer Letters</i> 118:135-142 (1997)
**	DN	Asahara et al., "Stem cell therapy and gene transfer for regeneration," <i>Gene Therapy</i> 7:451-457 (2000)

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Examiner Initial	Desig. ID	Document
**	DO	Avramova et al., "Heterochromatin in Animals and Plants," <i>Plant Physiology</i> 129:40-49 (2000)
	DP	Baker et al., Suppression of human colorectal carcinoma cell growth by wild-type p53, <i>Science</i> 249:912-915 (1990)
	DQ	Barnett et al., Telomere directed fragmentation of mammalian chromosomes, <u>Nucleic Acids Res.</u> 21 (1): 27-36 (1993)
	DR	Bartholdi, et al., Chromosome sorting by flow cytometry, <u>Meth. Enzy.</u> , 151:253-267, 1987
	DS	Beck von Bodman, et al, "Expression of multiple eukaryotic cells from a single promoter," in <i>Nicotina, Bio/Technology</i> 13:587-591, (1995).
	DT	Berlani et al., "Genomic organization of two families of highly repeated nuclear DNA sequences of maize selected for autonomous replicating activity in yeast", <i>Plant Molecular Biol.</i> , 11:161-172 (1988)
	DU	Berlani et al., "Sequence analysis of three fragments of maize nuclear DNA which replicate autonomously in yeast", <i>Plant Molecular Biol.</i> , 11:173-182 (1988)
	DV	Biggin et al., Buffer gradient gels and ³⁵ S label as an aid to rapid DNA sequence determination, <i>Proc. Natl. Acad. Sci. USA</i> , 80:3963-3965 (1983)
**	DW	<i>Biochemistry & Molecular Biology of Plants</i> , Bob B. Buchanan, Wilhelm Gruissem, Russell L. Jones Rockville, Md. : American Society of Plant Physiologists, c2000 pp.324-325
	DX	Blackburn et al. The molecular structure of centromeres and telomeres, <i>Ann. Rev. Biochem.</i> , 53:163-194 (1984)
	DY	Blackburn et al., BOOK: <u>Telomeres</u> , Chapter 13, "Plant Telomeres", Cold Spring Harbor Laboratory Press, pp. 371-387 (1995)
	DZ	Blattner et al., Charon phages: Safer derivatives of bacteriophage lambda for DNA cloning, <i>Science</i> 196:16 (1977)
	EA	Blennow, et al., Swedish survey on extra structurally abnormal chromosomes in 39 105 consecutive prenatal diagnoses: Prevalence and characterization by fluorescence <i>in situ</i> hybridization, <u>Prenatal Diagnosis</u> , 14:1019-1028, 1994
	EB	Blumenthal, et al., Rapid isolation of metaphase chromosome containing high molecular weight DNA, <i>J. Cell Biol.</i> , 81:255-259, 1979
	EC	Bostock and Christie, Analysis of the frequency of sister chromatid exchange in different regions of chromosomes of the Kangaroo rat (<i>Dipodomys ordii</i>), <i>Chromosoma</i> 56: 275-287 (1976)

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	ED	Bostock and Clark, Satellite DNA in large marker chromosomes of methotrexate-resistant mouse cells, <i>Cell</i> 19: 709-715 (1980)
	EE	Bower, Constructing a fully defined human minichromosome: Cloning a centromere, <i>Proc. 4th Eur. Congress Biotechnol.</i> 3:571 (1987)
	EF	Brazolot, <i>et al.</i> , "Efficient transfection of chicken cells by lipofection and introduction of transfected blastoderm cells into the embryo", <i>Mol. Repro. Dev.</i> 30:304-312, (1993).
	EG	Brewer and Fangman, The localization of replication origins on ARS plasmids in <i>S. cerevisiae</i> , <i>Cell</i> 51: 463-471 (1987)
	EH	Brinster <i>et al.</i> , Factors affecting the efficiency of introducing foreign DNA into mice by microinjecting eggs, <i>Proc. Natl. Acad. Sci. USA</i> 82:4438-4442 (1985).
	EI	Brisson and Hohn, [27] Plant virus vectors: Cauliflower mosaic vectors, <i>Methods for Plant Molecular Biology</i> , Weissbach <i>et al.</i> , eds., Academic Press, N.Y., Section VIII, pp. 437-446 (1988)
	EJ	Brondum-Nielsen and Mikkelsen, A 10-year survey, 1980-1990, of prenatally diagnosed small supernumerary marker chromosomes, identified by fish analysis. Outcome and follow-up of 14 cases diagnosed in a series of 12 699 prenatal samples, <i>Prenatal Diagnosis</i> , 15:615-619, 1995
	EK	Brown <i>et al.</i> , "Artificial Chromosomes: Ideal Vectors?", <i>Trends in Biotechnology</i> , 18:218-223 (2000)
	EL	Brown <i>et al.</i> , "Mammalian artificial chromosomes," <i>Curr. Opin. Genet. Dev.</i> 6(3): 281-288 (1996)
**	EM	Brown, "Mammalian artificial chromosomes, " <i>Current Opinion in Genetics and Development</i> 2:479-486 (1992)
	EN	Bühler <i>et al.</i> , Rabbit β -Casein Promoter Directs Secretion of Human Interleukin-2 into the Milk of Transgenic Rabbits, <i>Bio/Technology</i> 8:140-143 (1990).
	EO	Bullock and Botchan, Molecular events in the excision of SV40 DNA from the chromosomes of cultured mammalian cells. In: <i>Gene Amplification.</i> , Schimke RT, ed. Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press, pp 215-224 (1982)
	EP	Burhans and Huberman, DNA replication origins in animal cells - a question of context? <i>Science</i> 263: 639-640 (1994)
	EQ	Burhans <i>et al.</i> , Identification of an origin of bidirectional DNA replication in mammalian chromosomes, <i>Cell</i> 62: 955-965 (1990)

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	ER	Burke <i>et al.</i> , Cloning of large segments of exogenous DNA into yeast by means of artificial chromosome vectors, <i>Science</i> , 236:806-812 (1987)			
	ES	Burki, <i>et al.</i> , Zonal fractionation of mammalian metaphase chromosomes and determination of their DNA content, <i>Prep. Bioch.</i> , 3(2):157-182, 1973			
	ET	Calos, M.P., The potential of extrachromosomal replicating vectors for gene therapy, <i>TIG</i> 12(11):463-466 (1996)			
	EU	Carine <i>et al.</i> , Chinese hamster cells with a minichromosome containing centromere region of human chromosome 1, <i>Somatic Cell Molec. Genet.</i> 12:479-491 (1986)			
	EV	Carine <i>et al.</i> , Molecular characterization of human minichromosomes with centromere from chromosome 1 in hamster-human hybrids, <i>Somatic Cell Molec. Genet.</i> 15(5):445-460 (1989)			
	EW	Carrano and Wolff, Distribution of sister chromatid exchanges in the euchromatin and heterochromatin of the Indian muntjac, <i>Chromosoma</i> 53: 361-369 (1975)			
	EX	Carrano, <i>et al.</i> , Measurement and purification of human chromosomes by flow cytometry and sorting, <i>Proc. Natl. Acad. Sci. USA</i> , 76(3):1382-1384, 1979			
	EY	Carsience, <i>et al.</i> , "Germline chimeric chickens from dispersed donor blastodermal cells and compromised recipient embryos", <i>Develop</i> 117:669-675, (1993).			
	EZ	Chalfie <i>et al.</i> , Green fluorescent protein as a marker for gene expression, <i>Science</i> 263:802-804 (1994)			
	EAA	Chang <i>et al.</i> , Ribozyme-mediated site-specific cleavage of the HIV-1 genome, <i>Clin. Biotech.</i> 2:23-31 (1990)			
	FA	Chen <i>et al.</i> , Genetic mechanism of tumor suppression by the human p53 gene, <i>Science</i> 250:1576 (1990)			
	FB	Chen <i>et al.</i> , High-efficiency transformation of mammalian cells by plasmid DNA, <i>Mol. Cell. Biol.</i> 7:2745-2752 (1987)			
	FC	Chick, <i>et al.</i> , "Beta cell culture on synthetic capillaries: an artificial endocrine pancreas", Elliot P. Joslin Research Laboratory, Harvard Medical School, p. 847-849, (1975).			
	FD	Chikashige <i>et al.</i> , Composite motifs and repeat symmetry in <i>S. pombe</i> centromeres: Direct analysis by integration of NotI restriction sites, <i>Cell</i> 57:739-751 (1989)			
	FE	Chisari <i>et al.</i> , A transgenic mouse model of the chronic hepatitis B surface antigen carrier state, <i>Science</i> 230: 1157-1160 (1985).			
	FF	Choo, K.H.A., Turning on the centromere, <i>Nature Genetics</i> 18:3-4 (1998)			
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	FH	Church, Replication of chromatin in mouse mammary epithelial cells grown <i>in vitro</i> , <i>Genetics</i> 52: 843-849 (1965)
	FI	Clarke <i>et al.</i> , The structure and function of yeast centromeres, <i>Ann. Rev. Genet.</i> 19:29-56. (1985)
**	FJ	Co et al., "Generation of transgenic mice and germline transmission of a mammalian artificial chromosome introduced into embryos by pronuclear microinjection," <i>Chromosome Research</i> 8:183-191 (2000)
	FK	Coffman, <i>et al.</i> , <i>In Vitro</i> replication of plasmids containing human ribosomal gene sequences: Origin localization and dependence on an aprotinin-binding cytosolic protein, <i>Exp. Cell Resh.</i> , 209:123-132, 1993
	FL	Colbère-Garapin <i>et al.</i> , A new dominant hybrid selective marker for higher eukaryotic cells, <i>J. Mol. Biol.</i> 150:1-14 (1981)
	FM	Collard, <i>et al.</i> , Separation and analysis of human chromosomes by combined velocity sedimentation and flow sorting applying single- and dual-laser flow cytometry, <i>Cytometry</i> , 5:9-19, 1984
	FN	Collins and Newlon, Chromosomal DNA replication initiates at the same origins in meiosis and mitosis, <i>Mol Cell Biol</i> 14: 3524-3534. (1994)
	FO	Cooke <i>et al.</i> , pYAC-4 Neo, a yeast artificial chromosome vector which codes for G418 resistance in mammalian cells, <i>Nuc Acids Res.</i> 16(24):11817 (1988).
	FP	Cooke, Non-programmed and engineered chromosome breakage, <i>Cold Spring Harbor Monograph Series</i> 29: 219-245 (1995)
	FQ	Cooper and Tyler-Smith, The putative centromere-forming sequence of λ CM8 is a single copy sequence and is not a component of most human centromeres, <i>Hum. Mol. Gen.</i> 1(9):753-754 (1992)
**	FR	Copenhaver et al., "Genetic definition and sequence analysis of Arabidopsis centromeres," <i>Science</i> 286:2468-2474 (1999)
	FS	Couto <i>et al.</i> , Inhibition of intracellular <i>histoplasma capsulatum</i> replication by murine macrophages that produce human defensin, <i>Infect. Immun.</i> 62:2375-2378 (1994)
	FT	Cram <i>et al.</i> , Polyamine buffer for bivariate human flow cytogenetic analysis and sorting, <i>Methods in Cell Biology</i> 33:377-382 (1990)

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	FU	Cram, <i>et al.</i> , Univariate analysis of metaphase chromosomes using the hypotonic potassium chloride-propidium iodide protocol, <i>Meth. Cell Biol.</i> , 33 :369-376, 1990					
	FV	Cross <i>et al.</i> , The structure of subterminal repeated sequence present on many human chromosomes, <i>Nucleic Acids Res.</i> 18 (22): 6649 - 6657 (1990)					
	FW	Crystal, Transfer of Genes to Humans: Early Lessons and Obstacles to Success, <i>Science</i> 270 :404-410 (1995).					
	FX	Current state of the art, <i>Chromos Molecular Systems - News Release</i> (May 29, 1996) (available at http://www.chromos.com/contents.html)					
	FY	Cuthbert <i>et al.</i> , Construction and characterization of a highly stable human:rodent monochromosomal hybrid panel for genetic complementation and genome mapping studies, <i>Cytogenet Cell Genet</i> 71 :68-76 (1995).					
	FZ	Cutler, Electroporation: Being developed to transform crops, <i>Ag Biotechnology News</i> 7 :3 (September/October 1990)					
	FAA	Database WPI Derwent Abstract 199442, citing WO 9424300, Transposition construct for introducing genes into eukaryotic cell genome.					
	GA	Dausset <i>et al.</i> , "The CEPH YAC Library", <i>Behring Inst. Mitt.</i> , 91 :13-20 (1992)					
	GB	Davidson <i>et al.</i> , Improved techniques for the induction of mammalian cell hybridisation by polyethylene glycol, <i>Somatic Cell. Genet.</i> 2 :165-176 (1976)					
	GC	Dean <i>et al.</i> Multiple mutations in highly conserved residues are found in mildly affected cystic fibrosis patients, <i>Cell</i> 61 :863-870 (1990)					
	GD	deJong <i>et al.</i> , Mammalian artificial chromosome pilot production facility: large-scale isolation of functional satellite DNA-based artificial chromosomes, <i>Cytometry</i> 35 :129-133 (1999)					
	GE	DePamphilis, Eukaryotic DNA replication: Anatomy of an origin, <i>Annu. Rev. Biochem.</i> 62 :29-63 (1993)					
	GF	Dhar, <i>et al.</i> , "Transfer of Chinese Hamster Chromosome 1 to Mouse Cells and Regional Assignment of 7 Genes: A Combination of Gene Transfer and Microcell Fusion", <i>Somatic Cell and Molecular Genetics</i> , 10 :(6)547-559, (1984).					
	GG	DIALOG Abstract 007268905, citing: EP 0240 373 A1					
	GH	DIALOG Abstract 007389041, citing: EP 0254 315					
	GI	Dieken, <i>et al.</i> , "Efficient modification of human chromosomal alleles using recombination-proficient chicken/human microcell hybrids", <i>Nature Genet.</i> 12 :174-182, (1996).					
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	GJ	Dixon <i>et al.</i> , "Engineering Chimeras for Noah's Ark", <i>Hastings Cent. Rep.</i> , 14(2):10-12 (1984)					
	GK	Dresser, B.L., "Indian Desert Cat Birth Makes History", <i>Cat News:Issue 11 #19</i> , pgs. 1-3 (1989)					
	GL	Drohan, Transgenic Animals: "Great and Small," <i>Journal of Cellular Biochemistry</i> 49:111-112 (1992).					
	GM	Dunckley <i>et al.</i> , Retroviral-mediated transfer of a dystrophin minigene into <i>mdx</i> mouse myoblasts in vitro, <i>FEBS Lett.</i> 296:128-34 (1992)					
	GN	Ebert <i>et al.</i> , Transgenic Production of a Variant of Human Tissue-type Plasminogen Activator in Goat Milk: Generation of Transgenic Goats and Analysis of Expression, <i>Bio/Technology</i> 9:835-838 (1991).					
	GO	Eckdahl <i>et al.</i> , "DNA structures associated with autonomously replicating sequences form plant", <i>Plant molecular Biol.</i> , 12:507-516 (1989)					
	GP	Eissenberg and Elgin, Boundary functions in the control of gene expression, <i>Trends in Genet.</i> , 7(10):335-340, 1991					
	GQ	Erlich <i>et al.</i> , Recent advances in the polymerase chain reaction, <i>Science</i> 252:1643-1651 (1991)					
	GR	Etches, <i>et al.</i> , "Chimeric chickens and their use in manipulation of the chicken genome", <i>Poultry Sci.</i> 72:882-889, (1993).					
	GS	Eyestone, Production and breeding of transgenic cattle using in vitro embryo production technology, <i>Theriogenology</i> 51:509-517 (1999)					
	GT	Fabb <i>et al.</i> , Generation of novel human MHC class II mutant B-cell lines by integrating YCA DNA into a cell line homozygously deleted for the MHC class II region, <i>Human Molecular Genetics</i> 6(8):1295-1304 (1997)					
	GU	Fangman and Brewer, A question of time: replication origins of eukaryotic chromosomes, <i>Cell</i> 71: 363-366 (1992)					
	GV	Farr <i>et al.</i> , Generation of a human X-derived minichromosome using telomere-associated chromosome fragmentation, <i>EMBO J.</i> 14:5444-5454 (1995)					
	GW	Farr, Mammalian telomeres and chromosome fragmentation, <i>Cell Devtl. Biol.</i> 7: 41-48 (1996)					
	GX	Farrel <i>et al.</i> , p53 is frequently mutated in Burkitt's lymphoma cell lines, <i>EMBO J.</i> 10:2879-2887 (1991)					
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	GY	Fátyol <i>et al.</i> , Cloning and molecular characterization of a novel chromosome specific centromere sequence of Chinese hamster, <i>Nucl. Acids Res.</i> 22:3728-3736 (1994)
	GZ	Featherstone and Huxley, Extrachromosomal maintenance and amplification of yeast artificial chromosomes, <i>Genomics</i> 17:267-278 (1993)
	GAA	Fechheimer <i>et al.</i> , Transfection of mammalian cells with plasmid DNA by scrape loading and sonication loading, <i>Proc. Natl. Acad. Sci. USA</i> 84:8463-8467 (1987)
**	GBB	Fehilly <i>et al.</i> , Interspecific chimaerism between sheep and goat, <i>Nature</i> 307:634-636 (1984)
	GCC	Financsek <i>et al.</i> , Human ribosomal RNA gene: Nucleotide sequence of the transcription initiation region and comparison of three mammalian genes, <i>Proc. Natl. Acad. Sci.</i> 79: 3092-3096 (1982)
	GDD	Ford and Fried, Large inverted duplications are associated with gene amplification, <i>Cell</i> 45:425-430, (1986)
	HA	Fournier, A general high-efficiency procedure for production of microcell hybrids, <i>Proc. Natl. Acad. Sci. USA</i> 78:6349-6353 (1981)
	HB	Fowler, <i>et al.</i> , "Donor lymphoid cells of th2 cytokine phenotype reduce lethal graft versus host disease and facilitates fully allogeneic cell transfers in sublethally irradiated mice", <i>Advances in Bone Marrow Purging and Processing: Fourth International Symposium</i> , p. 533-540, (1994).
	HC	Frary <i>et al.</i> , "Molecular mapping of the centromeres of tomato chromosomes 7 and 9", <i>Mol. Gen. Genet.</i> , 250:295-304 (1996)
	HD	Frasier, <i>et al.</i> , "Efficient incorporation of transfected blastodermal cells into chimeric chicken embryos", <i>Int. J. Dev. Biol.</i> 37:381-385, (1993).
	HE	French <i>et al.</i> , Construction of a retroviral vector incorporating mouse VL30 retrotransposon-derived, transcriptional regulatory sequences, <i>Anal. Biochem.</i> 228:354-355 (1995)
	HF	Frohman and Martin, Cut, paste, and save: new Approaches to altering specific genes in mice, <i>Cell</i> 56:145-147 (1989)
	HG	Fromm <i>et al.</i> , Expression of genes transferred into monocot and dicot plant cells by electroporation, <i>Proc. Natl. Acad. Sci. USA</i> 82:5824-5828 (1985)
	HH	Fu S <i>et al.</i> , Molecular cytogenetic study of an extra small chromosome, (CHINA) 1992, 19(4):294-7, MEDLINE ABSTRACT: 93103732

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	HI	Garside <i>et al.</i> , A method for karyotyping mouse blastocyst embryos developing from in vivo and in vitro fertilized eggs, <i>Experientia</i> 41:1183-1184 (1985).
**	HJ	Gage, F.H., "Cell Therapy," <i>Nature</i> 392:18-24 (1998)
	HK	Gaub, <i>et al.</i> , "The chicken ovalbumin promoter is under negative control which is relieved by steroid hormones", <i>The EMBO Journal</i> , 6:(8)2313-2320, (1987).
	HL	Gillespie <i>et al.</i> , Tissue-specific expression of human CD4 in transgenic mice, <i>Mol. Cell. Biol.</i> 13:2952-2958 (1993)
	HM	Giraldo <i>et al.</i> , "Size matters: use of YACs, BACs and PACs in transgenic animals", <i>Transgenic Res.</i> , 10:83-103 (2001)
	HN	Gluzman, SV40-transformed simian cells support the replication of early SV40 mutants, <i>Cell</i> 23:175-182 (1981)
	HO	Gogel, <i>et al.</i> , Mapping of replication initiation sites in the mouse ribosomal gene cluster, <i>Chromosoma</i> , 104:511-518, 1996
	HP	Gonzales and Schmickel, The human 18S ribosomal RNA gene: Evolution and stability, <i>Am. J. Hum. Genet.</i> 38: 419-427 (1986)
	HQ	Gonzalez <i>et al.</i> , Variation among human 28S ribosomal RNA genes, <i>Proc. Natl. Acad. Sci. USA</i> 82:7666-7670 (1985)
	HR	Gonzalez and Sylvester, Complete sequence of the 43-kb human ribosomal DNA repeat: Analysis of the intergenic space, <i>Genomics</i> , 27:320-328, 1985
	HS	Goodfellow <i>et al.</i> , Techniques for mammalian genome transfer, in <i>Genome Analysis a Practical Approach</i> , K.E. Davies, ed., IRL Press, Oxford, Washington DC. pp.1-17 (1989)
	HT	Gordon <i>et al.</i> , Genetic transformation of mouse embryos by microinjection of purified DNA, <i>Proc. Natl. Acad. Sci. USA</i> 77(12):7380-7384 (1980).
	HU	Gordon <i>et al.</i> , Production of Human Tissue Plasminogen Activator in Transgenic Mouse Milk, <i>Bio/Technology</i> 5:1183-1187 (1987).
	HV	Gout, <i>et al.</i> , Prolactin-stimulated growth of cell cultures established from malignant Nb rat lymphomas, <i>Cancer Res.</i> , 40:2433-2436, 1980
	HW	Graham and van der Eb, A new technique for the assay of infectivity of human adenovirus 5 DNA, <i>Virology</i> 52:456-457 (1973)
	HX	Gravholt and Friedrich, Molecular cytogenetic study of supernumerary marker chromosomes in an unselected group of children, <i>Am. J. Med. Gen.</i> , 56:106-111, 1995

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	HY	Green <i>et al.</i> , Systematic screening of yeast artificial-chromosome libraries by use of the polymerase chain reaction, <i>Proc. Natl. Acad. Sci USA</i> 87:1213-1217 (1990).
	HZ	Green, <i>et al.</i> , "Chromosomal region of the cystic fibrosis gene in yeast artificial chromosomes: A model for human genome mapping", <i>Science</i> 250:94-98, (1990).
	HAA	Grierson <i>et al.</i> <i>Plant Molecular Biology</i> , 2d Ed., Blackie, London, Ch. 7-9 (1988)
	HBB	Gritz <i>et al.</i> , Plasmid-encoded hygromycin B resistance: the sequence of hygromycin B phosphotransferase gene and its expression in <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> , <i>Gene</i> 25:179-188 (1983)
	IA	Guide to Techniques in Mouse Development, <i>Methods in Enzymology</i> 25:803-932 (1993)
	IB	Gunning <i>et al.</i> , A human β -actin expression vector system directs high-level accumulation of antisense transcripts, <i>Proc. Natl. Acad. Sci. USA</i> 84:4831-4835 (1987)
	IC	Haaf <i>et al.</i> , Integration of Human α -satellite DNA into simian chromosomes: centromere protein binding and disruption of normal chromosome segregation, <i>Cell</i> , 70:681-696 (1992)
	ID	Haas and Dowding, Aminoglycoside-modifying enzymes, <i>Meth. Enzymol.</i> , 43:611-628, 1975
	IE	Haase <i>et al.</i> , Transcription inhibits the replication of autonomously replicating plasmids in human cells, <i>Mol. Cell. Biol.</i> 14:2516-2524 (1994)
	IF	Hadlaczky and Szalay, Mammalian artificial chromosomes: Introduction of novel genes into mammalian artificial chromosomes, Abstract from International Symposium on <i>Gene Therapy of Cancer, AIDS and Genetic Disorders</i> , Trieste (Italy) (April 10-13, 1996) (available at http://www.chromos.com/contents.html)
	IG	Hadlaczky <i>et al.</i> , "DNA Synthesis And Division In Interkingdom Heterokaryons", <i>In Vitro</i> , 16(8):647-650 (1980)
	IH	Hadlaczky <i>et al.</i> , Centromere formation in mouse cells cotransformed with human DNA and a dominant marker gene, <i>Proc. Natl. Acad. Sci. USA</i> 88:8106-8110 (1991)
	II	Hadlaczky <i>et al.</i> , Centromere proteins, <i>Chromosoma</i> 97:282-288 (1989)
	IJ	Hadlaczky <i>et al.</i> , Direct evidence for the non-random localization of mammalian chromosomes in the interphase nucleus, <i>Exp. Cell Res.</i> 167:1-15 (1986)
	IK	Hadlaczky <i>et al.</i> , Protein depleted chromosomes, <i>Chromosoma</i> 81:537-555 (1981)
**	IL	Hadlaczky <i>et al.</i> , "Satellite DNA-based artificial chromosomes for use in gene therapy," <i>Curr. Opin. Mol. Thera.</i> 3:125-132 (2001)

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	IM	Hadlaczky <i>et al.</i> , Structure of isolated protein-depleted chromosomes of plants. <i>Chromosoma</i> 86:643-659 (1982)
	IN	Hadlaczky, Structure of metaphase chromosomes of plants, <i>Internatl. Rev. Cytol.</i> 94:57-76 (1985)
	IO	Hall <i>et al.</i> , Expression and regulation of <i>Escherichia coli lacZ</i> gene fusions in mammalian cells, <i>J. Mol. Appl. Gen.</i> 2:101-109 (1983)
	IP	Handeli <i>et al.</i> , Mapping replication units in animal cells, <i>Cell</i> 57 909-920 (1989)
	IQ	Hanna <i>et al.</i> , Specific expression of the human CD4 gene in mature CD4 ⁺ CD8 ⁻ and immature CD4 ⁺ CD8 ⁺ T cells and in macrophages of transgenic mice, <i>Mol. Cell. Biol.</i> 14:1084-1094 (1994)
	IR	Harper <i>et al.</i> , Localization of single copy DNA sequences on G-banded human chromosomes by in situ hybridization, <i>Chromosoma</i> 83:431-439 (1981)
	IS	Harrington, <i>et al.</i> , Formation of <i>de novo</i> centromeres and construction of first-generation human artificial microchromosomes, <i>Nature Genetics</i> , 15:345-355, 1997
	IT	Haskell <i>et al.</i> , Efficient Production of Transgenic Cattle by Retroviral Infection of Early Embryos, <i>Molecular Reproduction and Development</i> 40:386-390 (1995).
	IU	Hassan <i>et al.</i> , Replication and transcription sites are colocalized in human cells. <i>J. Cell. Sci.</i> 107:425-434 (1994)
	IV	Heller <i>et al.</i> , Mini-chromosomes derived from the human Y chromosome by telomere directed chromosome breakage, <i>Proc. Natl. Acad. Sci. USA</i> 93:7125-7130 (1996).
**	IW	Hemann <i>et al.</i> , "High-copy expression vector based on amplification-promoting sequences," <i>DNA Cell Biology</i> 13(4):437-445 (1994)
	IX	Henikoff <i>et al.</i> , Position-effect variegation after 60 years, <i>Trends in Genetics</i> 6: 422-426 (1990).
	IY	Higgins <i>et al.</i> , Organization of a repetitive human 1.8 kb KpnI sequence localized in the heterochromatin of chromosome 15, <i>Chromosoma</i> 93:77-86 (1985).
	IZ	Hill <i>et al.</i> , Production of Transgenic Cattle by Pronuclear Injection, <i>Theriogenology</i> 37:222 (1992).
	JA	Hilwig and Gropp, Decondensation of constitutive heterochromatin in L cell chromosomes by a benzimidazole compound (□33258 Hoechst□), <i>Exp Cell Res</i> 81: 474-477 (1973)

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	JC	Hogan <i>et al.</i> , Manipulating the Mouse Embryo: A Laboratory Manual, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pages 127 and 429 (1994)
	JD	Hogan <i>et al.</i> , <i>Manipulating the Mouse Embryo: A Laboratory Manual</i> , Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pages 253-289, see, especially pages 255-264 and Appendix 3 (1994)
	JE	Hollo <i>et al.</i> , Evidence for a megareplicon covering megabases of centromere segments, <i>Chromosome Research</i> 4:240-247 (1996)
	JF	Holmen, <i>et al.</i> , "Efficient Lipid-mediated transfection of DNA into Primary Rat Hepatocytes", <i>In Vitro Cell, Dev. Biol.</i> 30:347-351, (1995).
	JG	Holmquist and Comings, Sister chromatid exchange and chromosome organisation based on a bromodeoxyuridine Giemsa-C-banding technique (TC-banding), <i>Chromosoma</i> 52:245-259 (1975)
	JH	Houben <i>et al.</i> , "Immunostaining and interphase arrangement of field bean kinetochores", <i>Chrom. Res.</i> , 3:27-31 (1995)
	JI	Houdebine, Production of pharmaceutical proteins from transgenic animals, <i>Journal of Biotechnology</i> 34:269-287 (1994).
	JJ	Hsu and Markvong, Chromosomes and DNA in <i>Mus</i> : Terminal DNA synthetic sequences in three species, <i>Chromosoma</i> 51:311-322 (1975)
	JK	Huberman and Riggs, On the mechanism of DNA replication in mammalian chromosomes, <i>J Mol Biol</i> 32:327-341 (1968)
	JL	Huberman <i>et al.</i> , The <i>in vivo</i> replication origin of the yeast 2 μ m plasmid. <i>Cell</i> 51:473-481 (1987)
	JM	Huxley, Mammalian artificial chromosomes: a new tool for gene therapy, <i>Gene Therapy</i> , 1:7-12 (1994)
	JN	Huxley, Mammalian artificial chromosomes and chromosome transgenics, <i>Trends in Genetics</i> 13(9):245-147 (1997)
	JO	Hyde <i>et al.</i> , Correction of the ion transport defect in cystic fibrosis transgenic mice by gene therapy, <i>Nature</i> 362: 250-255 (1993)

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	JP	Hyrien <i>et al.</i> , The multicopy appearance of large inverted duplication and the sequence at the inversion joint suggest a new model for gene amplification, <i>EMBO J</i> 7:407-417 (1988)
	JQ	Ijdo <i>et al.</i> , Improved telomere detection using a telomere repeat probe (TTAGGG) _n generated by PCR, <i>Nucleic Acids Research</i> 19(17):4780 (1991).
	JR	Ikeno <i>et al.</i> , Construction of YAC-based mammalian artificial chromosomes, <i>Nature Biotech</i> 16:431-439 (1998).
	JS	Ioannou, <i>et al.</i> , A new bacteriophage P1-derived vector for the propagation of large human DNA fragments, <i>Nature Genetics</i> , 6:84-89, 1994
	JT	Ish-Horowitz <i>et al.</i> , Rapid and efficient cosmid cloning, <i>Nucleic Acids Res.</i> 9:2989-2998 (1981)
	JU	Jabs, <i>et al.</i> , "Characterization of a cloned DNA sequence that is present at centromeres of all human autosomes and the X chromosome and shows polymorphic variation", <i>Proc. Natl. Acad.</i> 81:4884-4888, (1984).
	JV	Jacob <i>et al.</i> , On the regulation of DNA replication in bacteria, <i>Cold Spring Harb Symp Quant Biol</i> 28:329-348 (1963)
	JW	Jacobovits <i>et al.</i> , "Germ-line transmission and expression of a human-derived yeast artificial chromosome", <i>Nature</i> , 362:255-258 (1993)
	JX	Jiang <i>et al.</i> , "A conserved repetitive DNA element located in the centromeres of cereal chromosomes", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 93:14210-14213 (1996)
	JY	Jiewen <i>et al.</i> , Decondensation of hamster chromosomes in the nuclei of 1-cell stage mice embryo following chromosome microinjection, <i>Theriogenology</i> 45:336 (1996).
	JZ	Johnson, <i>et al.</i> , Genetic mapping of variable length rDNA segments to centromeric regions of mouse Chromosomes 11, 12, 15, 16, and 18, <i>Mammalian Genome</i> , 4:49-52, 1993
	JAA	Johnston <i>et al.</i> , Construction of a mammalian artificial chromosome, Abstract from CGAT grant application, September 1994
	JBB	Joy and Gopinathan, Expression of microinjected foreign DNA in the silkworm, <i>Bombex mori</i> , <i>Current Science</i> 66:145-150 (1991)
	JCC	Kalitsis <i>et al.</i> , A Chromosome 13-Specific Human Satellite I DNA Subfamily with Minor Presence on Chromosome 21: Further Studies on Robertsonian Translocations, <i>Genomics</i> 16:104-112 (1993).
	KA	Kappel <i>et al.</i> , Regulating gene expression in transgenic animals, <i>Current Biology</i> , p. 548-553 (1992).

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	KB	Kaszas <i>et al.</i> , "Misdivision analysis of centromere structure in maize", <i>EMBO J.</i> , 15(19):5246-5255 (1996)
	KC	Keown <i>et al.</i> , Methods for introducing DNA into mammalian cells, <i>Meth. Enzymol.</i> 185:527-537 (1990)
	KD	Kerem <i>et al.</i> , Identification of the cystic fibrosis gene: genetic analysis, <i>Science</i> 245:1073-1080 (1989)
	KE	Kereso <i>et al.</i> , <i>De novo</i> chromosome formations by large-scale amplification of the centromeric region of mouse chromosomes, <i>Chromosome Research</i> 4(3):226-239 (1996)
	KF	Killary, <i>et al.</i> , "Microcell Fusion", <i>Methods in Enzymology</i> , 254:133-152, (1995).
	KG	Kitsberg <i>et al.</i> , Replication structure of the human b-globin gene domain, <i>Nature</i> 366:588-590 (1993)
	KH	Klinger <i>et al.</i> , Modulation of the Activity of an Avian Gene Transferred into a Mammalian Cell by Cell Fusion, <i>Proc. Natl. Acad. Sci.</i> 71(4):1398-1402 (1974).
	KI	Klotman <i>et al.</i> Transgenic models of HIV-1, <i>Current Sci Ltd.</i> 9:313-324, (1995).
	KJ	Korenberg <i>et al.</i> , Human genome organization: Alu, LINES, and the molecular structure of metaphase chromosome bands, <i>Cell</i> 53:391-400 (1988)
	KK	Kornberg and Baker, <i>DNA Replication</i> . 2nd. ed., New York: W.H. Freeman and Co, p. 474 (1992)
	KL	Kraemer <i>et al.</i> , "Intra- and Interspecific Embryo Transfer", <i>J. Experimental Zoology</i> , 228:363-371 (1983)
	KM	Krimpenfort <i>et al.</i> , Generation of transgenic dairy cattle using 'in vitro' embryo production, <i>Bio/Technology</i> 9:844-847 (1991).
**	KN	Kuhholzer <i>et al.</i> , <i>Advances in Livestock Nuclear Transfer</i> , Vol 224: p.240-245, 2000
	KO	Lalande, <i>et al.</i> , Molecular detection and differentiation of deletions in band 13q14 in human retinoblastoma, <i>Cancer Genet Cytogenet.</i> 23:151-157, 1986
	KP	Lamb, B. <i>et al.</i> , YAC transgenics and the study of genetics and human disease, <i>Curr. Opinion: Genetics & Dev.</i> 6, 342-348 (1995).
	KQ	Lambert <i>et al.</i> , Functional complementation of ataxia-telangiectasia group D (AT-D) cells by microcell-mediated chromosome transfer and mapping of the AT-D locus to the region 11q22-23, <i>Proc. Natl. Acad. Sci. USA</i> 88:5907-59 (1991)
	KR	Lanza <i>et al.</i> , "Cloning Noah's Ark", <i>Scientific American</i> , Nov:84-89 (2000)

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	KS	Larin <i>et al.</i> , "A method for linking yeast artificial chromosomes", <i>Nucl. Acid. Res.</i> , <u>24</u> :4192-4196 (1996)					
	KT	Larin <i>et al.</i> , <i>De novo</i> formation of several features of a centromere following introduction of a Y alphoid YAC into mammalian cells, <i>Human Molecular Genetics</i> 3(5):689-695 (1994).					
	KU	Larsson <i>et al.</i> Reduced β 2-microglobulin mRNA levels in transgenic mice expressing a designed hammerhead ribozyme, <i>Nucleic Acids Research</i> 22:2242-2248, (1994).					
	KV	Lawrence <i>et al.</i> Sensitive, high-resolution chromatin and chromosome mapping <i>in situ</i> : Presence and orientation of two closely integrated copies of EBV in a lymphoma line, <i>Cell</i> 52:51-61 (1988)					
	KW	Le Bolc'h, <i>et al.</i> , "Cationic phosphonolipids as non viral vectors for DNA transfection", <i>Tetrahedron Lett.</i> 36:6681-6684, (1995).					
	KX	Lebo <i>et al.</i> , Design and operation of a dual laser chromosome sorter, <i>Cytometry</i> 3:213-219 (1982)					
	KY	Ledbetter <i>et al.</i> , New Somatic Cell Hybrids for Physical Mapping in Distal Xq and the Fragile X Region, <i>American Journal of Medical Genetics</i> 38:418-420 (1991).					
	KZ	Leder <i>et al.</i> , EK2 derivatives of bacteriophage lambda useful in the cloning of DNA from higher organisms: The λ gtWES system, <i>Science</i> 196:175-177 (1977)					
	KA	Lee <i>et al.</i> , Human centromeric DNA, <i>Human Genetics</i> 100:291-300 (1997)					
	KB	Lee <i>et al.</i> , Human gamma X satellite DNA: an X chromosome specific centromeric DNA sequence, <i>Chromosoma</i> 104: 103-112 (1995)					
**	LA	Lehninger, "Biochemistry", 2nd edition, Worth Publishers, New York, N.Y., p35, .864, (1976)					
	LB	Libert <i>et al.</i> , "Construction of a Bovine Genomic Library of Large Yeast Artificial Chromosome Clones", <i>Genomics</i> , <u>18</u> :270-276 (1993)					
	LC	Lin <i>et al.</i> , Isolation and identification of a novel tandemly repeated DNA sequence in the centromeric region of human chromosome 8, <i>Chromosoma</i> 102: 333-339 (1993)					
	LD	Little, <i>et al.</i> , Initiation and termination of DNA replication in human rRNA genes, <i>Molec. and Cell. Biol.</i> , <u>13</u> (10):6600-6613, 1993					
	LE	Liu <i>et al.</i> , The pro region of human neutrophil defensin contains a motif that is essential for normal subcellular sorting, <i>Blood</i> 85:1095-1103 (1995)					
	LF	Locardi <i>et al.</i> , Persistent infection of normal mice with human immunodeficiency virus, <i>J. Virol.</i> 66:1649-1654 (1992)					
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	LH	Loi <i>et al.</i> , "Genetic rescue of an endangered mammal by cross-species nuclear transfer using post-mortem somatic cells", <i>Nat. Biotechnol.</i> , 19:962-964 (2001)
	LI	Looney <i>et al.</i> , The dihydrofolate reductase amplicons in different methotrexate-resistant Chinese hamster cell lines share at least a 273-kilobase core sequence, but the amplicons in some cell lines are much larger and remarkably uniform in structure, <i>Mol. Cell Biol.</i> 8:5268-5279 (1988)
**	LJ	Lopes <i>et al.</i> , "Mechanism of high-copy-number integration of pMIRY-type vectors into the ribosomal DNA of <i>Saccharomyces cerevisiae</i> ," <i>Gene</i> 105:83-90 (1991)
	LK	Lorenz <i>et al.</i> , Expression of the <i>Renilla reniformis</i> luciferase gene in mammalian cells, <i>J. Biol. Chem.</i> 271:31-37 (1996)
	LL	Lorenz <i>et al.</i> , Isolation and expression of a cDNA encoding <i>Renilla reniformis</i> luciferase, <i>Proc. Natl. Acad. Sci. USA</i> 88:4438-4442 (1991)
	LM	Love, <i>et al.</i> , "Transgenic birds by microinjection", <i>Bio/Technology</i> 12:60-63, (1994).
	LN	Ma <i>et al.</i> , Organisation and genesis of dihydrofolate reductase amplicons in the genome of a methotrexate-resistant Chinese hamster ovary cell line, <i>Mol. Cell Biol.</i> 8:2316-2327 (1988)
	LO	Ma <i>et al.</i> , Sister chromatid fusion initiates amplification of the dihydrofolate reductase gene in Chinese hamster cells, <i>Genes Develop.</i> 7:605-620 (1993)
	LP	McCallum and Maden, Human 18S ribosomal RNA sequence inferred from DNA sequence, <i>Biochem J.</i> 232:725-733 (1985)
	LQ	Madan <i>et al.</i> , Fluorescence analysis of late DNA replication in mouse metaphase chromosomes using BUdR and 33258 Hoechst, <i>Exp. Cell Res.</i> 99:438-444 (1976)
	LR	Maden, <i>et al.</i> , Clones of human ribosomal DNA containing the complete 18 S-rRNA and 28 S-rRNA genes, <i>J. Biochem.</i> , 246:519-527, 1987
	LS	Maeda <i>et al.</i> , Production of human α -interferon in silkworm using a baculovirus vector, <i>Nature</i> 315:592-594 (1985).
	LT	Maniatis <i>et al.</i> , The isolation of structural genes from libraries of eucaryotic DNA, <i>Cell</i> 15: 687-701 (1978)

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	LU	Mansour <i>et al.</i> , Disruption of the proto-oncogene <i>int-2</i> in mouse embryo-derived stem cells: a general strategy for targeting mutations to non-selectable genes, <i>Nature</i> 336:348-352 (1988)
	LV	Manuelidis, Heterochromatic features of an 11-megabase transgene in brain cells, <i>Proc. Natl. Acad. Sci. USA</i> , 88:1049-1053, 1991
	LW	Marshall <i>et al.</i> , "Transfer of YACs up to 2.3 Mb intact into human cells with polyethylenimine", <i>Gene Therapy</i> , 6:1634-1637 (1999)
	LX	Matthews <i>et al.</i> , Purification and properties of <i>Renilla reniformis</i> luciferase, <i>Biochemistry</i> 16:85-91 (1977)
	LY	Maxwell <i>et al.</i> , Regulated expression of a diphtheria toxin A-chain gene transfected into human cells: possible strategy for inducing cancer cell suicide, <i>Cancer Res.</i> 46:4660-4664 (1986)
	LZ	McCormick <i>et al.</i> , Construction of human chromosome 21-specific yeast artificial chromosomes, <i>Proc. Natl. Acad. Sci. USA</i> 86:9991-9995 (1989).
	LAA	McGill <i>et al.</i> , ACM8, a human sequence with putative centromeric function, does not map to the centromere but is present in one or two copies at 9qter, <i>Hum. Mol. Gen.</i> 1(9):749-751
	MA	McGuigan <i>et al.</i> , Replication of yeast DNA and novel chromosome formation in mouse cells, <i>Nucl. Acids Res.</i> 24(12): 2271-2280 (1996)
	MB	McLean, "Improved techniques for immortalizing animal cells", <i>TIBTECH</i> 11:232-238, (1993).
	MC	Meinkoth and Wahl, Hybridization of nucleic acids immobilized on solid supports, <i>Anal. Biochem.</i> 138:267-284 (1984)
**	MD	Meyer <i>et al.</i> , "Inhibition of HIV-1 replication by a high-copy-number vector expressing antisense RNA for reverse transcriptase," <i>Gene</i> 129:263-268 (1993)
	ME	Meyne <i>et al.</i> , Chromosome localization and orientation of the simple sequence repeat of human satellite I DNA, <i>Chromosoma</i> 103:99-103 (1994).
	MF	Meyne <i>et al.</i> , Distribution of non-telomeric sites of the (TTAGGG) _n telomeric sequence in vertebrate chromosomes, <i>Chromosoma</i> 99:3-10, (1990).
	MG	Miesfeld and Arnheim, Identification of the <i>in vivo</i> and <i>in vitro</i> origin of transcription in human rDNA, <i>Nucleic Acid Res.</i> , Vol. 10, No. 13, 1982
	MH	Miller and Rosman, Improved retroviral vectors for gene transfer and expression, <i>Biotechniques</i> 7:980-990 (1989)

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	MI	Miller <i>et al.</i> , High-efficiency ligation and recombination of DNA fragments by vertebrate cells, <i>Science</i> 220:606-609,
	MJ	Miller, in <i>Experiments in Molecular Genetics</i> , Cold Spring Harbor Press, pp. 352-355 (1972)
	MK	Miller, Is the centromeric heterochromatin of <i>Mus musculus</i> late replicating? <i>Chromosoma</i> 55:165-170 (1976)
	ML	Mitani <i>et al.</i> , Delivering therapeutic genes - matching approach and application, <i>Trends Biotech.</i> 11:162-166 (1993)
	MM	Mole-Bajer <i>et al.</i> , "Autoantibodies from a patient with scleroderma CREST recognized kinetochores of the higher plant <i>Haemanthus</i> ", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 87:3599-3603 (1990)
**	MN	Monteith <i>et al.</i> , "Pronuclear microinjection of purified artificial chromosomes for generation of transgenic mice: pick-and-inject technique," <i>Method Mol. Biol.</i> 240:227-42 (2004)
	MO	Moore <i>et al.</i> , "Centromeric sites and cereal chromosome evolution", <i>Chromosoma</i> , 105:321-323 (1997)
	MP	Moreadith <i>et al.</i> , Gene targeting in embryonic stem cells: the new physiology and metabolism, <i>J. Mol. Med.</i> 75:208-216 (1997)
	MQ	Morgan and French Anderson, Human gene therapy, <i>Annu. Rev. Biochem.</i> 62:191-217 (1993)
	MR	Morgenstern <i>et al.</i> , Advanced mammalian gene transfer: High titre retroviral vectors with multiple drug selection markers and a complementary helper-free packaging cell line, <i>Nucleic Acids Res.</i> 18:3587-3596 (1990)
	MS	Mukherjee <i>et al.</i> , Entrapment of metaphase chromosomes into phospholipid vesicles (lipochromosomes): Carrier potential in gene transfer, <i>Proc. Natl. Acad. Sci. USA</i> 75(3):1361-1365 (1978)
	MT	Mulligan, The basic science of gene therapy, <i>Science</i> 260:926-932 (1993)
	MU	Mullins <i>et al.</i> , Perspective Series: Molecular Medicine in Genetically Engineered Animals, <i>Transgenesis in Nonmarine Species</i> 98(11):S37-S40 (1996).
	MV	Murray <i>et al.</i> , Construction of artificial chromosomes in yeast, <i>Nature</i> 305:189-193 (1983)
	MW	Nabel <i>et al.</i> , Site-specific gene expression in vivo by direct gene transfer into the arterial wall, <i>Science</i> 249:1285-1288 (1990)

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	MX	Naider, <i>et al.</i> , Reversible alkylation of a methionyl residue near the active site of B-Galactosidase, <i>Biochemistry</i> , 11(17):3202-3210, 1972			
	MY	Nazar <i>et al.</i> , Sequence homologies in mammalian 5.8S ribosomal RNA, <i>Biochem.</i> 15(3):505-508 (1976)			
	MZ	Nikolaev <i>et al.</i> , Microinjection of recombinant DNA into early embryos of the mulberry silkworm <i>Bombyx mori</i> , <i>Mol. Biol. (Moscow)</i> 23:1177-87 (1989)			
**	MAA	Oback and Wells, "Practical aspects of donor cell selection for nuclear cloning," <i>Cloning and Stem Cells</i> 4:169-174 (2002)			
**	MBB	Oberle <i>et al.</i> , "Efficient transfer of chromosome-based DNA constructs into mammalian cells," <i>Biochimica et Biophysica Acta</i> 1676: 223-30 (2004)			
	MCC	Ohnuki, Structure of chromosomes, <i>Chromosoma</i> (Berl), 25:402-428, 1968			
	MDD	O'Keefe <i>et al.</i> , Dynamic organization of DNA replication in mammalian cell nuclei: Spatially and temporally defined replication of chromosome-specific a-satellite DNA sequences, <i>J. Cell Biol.</i> 116:1095-1110 (1992)			
	MEE	Orkin, S.H., Report and Recommendations of the Panel to Assess the NIH Investment in Research of Gene Therapy, December 7, 1995, pages 1-45. Available online at: http://www.nih.gov/news/panelrep.html			
	MFF	Osborne <i>et al.</i> , A mutation in the second nucleotide binding fold of the cystic fibrosis gene, <i>Am. J. Hum. Genetics</i> 48:608-612 (1991)			
	NA	Palmieri <i>et al.</i> , "Construction of a pilot human YAC library in a recombination-defective yeast strain", <i>Gene</i> , 188:169-174 (1997)			
	NB	Palmiter <i>et al.</i> , Dramatic growth of mice that develop from eggs microinjected with metallothionein-growth hormone fusion genes, <i>Nature</i> 300:611-615 (1982).			
	NC	Park, <i>et al.</i> , "Modulation of Transcriptional Activity of the Chicken ovalbumin gene promoter in primary cultures of chicken oviduct cells: effects of putative regulatory elements in the 5'-flanking region", <i>Biochem and Mol Biol International</i> 36(4):811-816, (1995).			
	ND	Parkman <i>et al.</i> , Abstract for: Gene Therapy for adenosine deaminase deficiency, <i>Annual Rev. Med.</i> 51 33-47 (2000)			
	NE	Paszowski and Saul, [28] Direct gene transfer to plants, <i>Methods for Plant Molecular Biology</i> , Weissbach <i>et al.</i> , eds., Academic Press, N.Y., Section VIII, pp. 447-463 (1988)			
**	NF	Perez <i>et al.</i> , "Satellite DNA-based artificial chromosomes - chromosomal vectors", <i>Trends in Biotechnology</i> , 18:402-403 (2000)			
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Examiner Initial	Desig. ID	Document
	NG	Perry and Wolff, A new Giemsa method for the differential staining of sister chromatids, <i>Nature</i> 251:156-158 (1974)
	NH	Petitte, <i>et al.</i> , "Production of somatic and germline chimeras in the chicken by transfer of early blastodermal cells", <i>Development</i> 108:185-189, (1990).
	NI	Pierce and Sternberg, Using Bacteriophage P1 system to clone high molecular weight genomic DNA, <i>Meth. Enzymol.</i> , 216:549-574, 1992
	NJ	Pierce, <i>et al.</i> , A positive selection vector for cloning high molecular weight DNA by the bacteriophage P1 system: Improved cloning efficacy, <i>Proc. Natl. Acad. Sci. USA</i> , 89:2056-2060, 1992
	NK	Pinkel <i>et al.</i> , Cytogenetic analysis using quantitative, high-sensitivity, fluorescence hybridization, <i>Proc. Natl. Acad. Sci. USA</i> , 83:2934-2938 (1986)
	NL	Pluta <i>et al.</i> , Structure of the human centromere at metaphase, <i>TIBS</i> 15:181-185 (1990)
	NM	Pope <i>et al.</i> , "In vitro fertilization in domestic and non-domestic cats including sequences of early nuclear events, development <i>in vitro</i> , cryopreservation and successful intra- and interspecies embryo transfer," <i>J. Reprod. Fert. Suppl.</i> 47: 189-201 (1993)
	NN	Prasher <i>et al.</i> , Primary structure of the <i>Aequorea victoria</i> green-fluorescent protein, <i>Gene</i> 111:229-233 (1992)
	NO	Praznovszky <i>et al.</i> , <i>De novo</i> chromosome formation in rodent cells, <i>Proc. Natl. Acad. Sci. USA</i> 88:11042-11046 (1991)
	NP	Press Release Advanced Cell April 8, 2003 "Collaborative Effort Yields Endangered Species Clone
	NQ	Press Release Advanced Cell January 12, 2001 "Advanced Cell Technology Announces Birth of First Cloned Endangered"
	NR	Priest, Cytogenetics. In <i>Medical Technology Series</i> . R.M. French, M. Eichman, B. Fiorella, and H.F. Weisberg, eds. (Lea and Febiger, Philadelphia) pp.189-190 (1969)
	NS	Quastler <i>et al.</i> , Cell population kinetics in the intestinal epithelium of the mouse, <i>Exp. Cell Res.</i> 17:420-438 (1959)
	NT	Raimondi, <i>et al.</i> , "X-ray mediated size reduction, molecular characterization and transfer in model systems of a human artificial minichromosome", Abstract from International Symposium on <i>Gene Therapy of Cancer, AIDS and Genetic Disorders</i> , Trieste (Italy) (April 10-13, 1996).

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	NU	Raimondi, Gene targeting to the centromeric DNA of a human minichromosome. <u>Hum. Gene Ther.</u> 7: 1103-1109 (1996)
	NV	Rancourt <i>et al.</i> , Wolffish Antifreeze Protein from Transgenic <i>Drosophila</i> , <u>Bio/Technology</u> 8:453-457 (1990).
	NW	Rasko <i>et al.</i> , Pattern of segregation of chicken HPRT phenotype in Chinese hamster-chick red blood cell hybrids, <u>Cytogenet Cell Genet</u> 24:129-137 (1979).
**	NX	Raven <i>et al.</i> , "The Classification of Living Things", in Botany, pages 171-185, Worth Publishers, New York, N.Y. (1992)
	NY	Raynal <i>et al.</i> , Complete nucleotide sequence of mouse 18 SrRNA gene: comparison with other available homologs, <u>FEBS Lett.</u> 167 (2): 263-367 (1984)
	NZ	Remy, <i>et al.</i> , "Gene Transfer with a Series of Lipophilic DNA-Binding Molecules", <u>Bioconjugate Chem.</u> 5:647-654, (1994).
	NAA	Report and recommendations of the panel to assess the NIH investment in research on gene therapy, Orkin and Motulsky, co-chairs (December 7, 1995) (available at http://www.nih.gov/news/panelrep.html)
	OA	Rhodes <i>et al.</i> , "Telomere structure and function", <u>Curr. Opin. Struc. Biol.</u> , 5:311-322 (1995)
	OB	Richia and Lo, Introduction of human DNA into mouse eggs by injection of dissected chromosome fragments, <u>Science</u> 245:175-177 (1989)
	OC	Riego <i>et al.</i> , Production of Transgenic Mice and Rabbits that Carry and Express the Human Tissue Plasminogen Activator cDNA under the Control of a Bovine Alpha S1 Casein Promoter, <u>Theriogenology</u> 39:1173-1185 (1993).
	OD	Riordan <i>et al.</i> , Identification of the cystic fibrosis gene: cloning and characterization of complementary DNA, <u>Science</u> 245:1066-1072 (1989)
	OE	Roberts <i>et al.</i> , Ribosomal RNA Gene Amplification: A Selective Advantage in Tissue Culture, <u>Cancer Genet Cytogenet</u> 29:119-127 (1987).
	OF	Robertson <i>et al.</i> , Germ-line transmission of genes introduced into cultured pluripotent cells by retroviral vector, <u>Nature</u> 323:445-448 (1986).
	OG	Rogers <i>et al.</i> , [26] Gene transfer in plants: Production of transformed plants using Ti plasmid vectors, <u>Methods for Plant Molecular Biology</u> , Weissbach <i>et al.</i> , eds., Academic Press, N.Y., Section VIII, pp. 423-436 (1988)
	OH	Rommens <i>et al.</i> , Identification of the cystic fibrosis gene: chromosome walking and jumping, <u>Science</u> 245:1059-1065 (1989)

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	OI	Rorie <i>et al.</i> , "A simplified procedure for making reconstituted blastocysts for interspecific and intergeneric transfer", <i>Vet. Rec.</i> , <u>135</u> :186-187 (1994)
	OJ	Rosenfeld <i>et al.</i> , <i>In vivo</i> transfer of the human cystic fibrosis transmembrane conductance regulator gene to the airway epithelium, <i>Cell</i> 68:143-155 (1992)
	OK	Roslaniec, <i>er al.</i> , Development of a high speed optical chromosome sorter based on photoinduced cross-linking of DNA with psoralens, International Society for Analytical Cytology Abstracts, 1994
	OL	Rossant and Frels, "Interspecific Chimeras in Mammals: Successful Production of Live Chimeras Between <i>Mus musculus</i> and <i>Mus caroli</i> ", <i>Science</i> , <u>208</u> :419-421 (1980)
	OM	Roth <i>et al.</i> , Illegitimate Recombination in Mammalian Cells, Chapter 21 621-653.
	ON	Roth, <i>et al.</i> , "Artifizielle chromosomen", <i>Natur Wissenschaften</i> 74:78-85, (1987).
	OO	Rowe, <i>et al.</i> , Genetic mapping of 18S ribosomal RNA-related loci to mouse chromosomes 5, 6, 9, 12, 17, 18, 19, and X, <i>Mammalian Genome</i> , <u>7</u> :886-889, 1996
**	OP	Saffery and Choo, "Strategies for engineering human chromosomes with therapeutic potential", <i>J. Gene Med.</i> , 4:5-13 (2002)
	OQ	Safrany and Hidvegi, New tandem repeat region in the non-transcribed spacer of human ribosomal RNA gene, <i>Nucl. Acids Res.</i> 17(8):3013-3023 (1989)
	OR	Sakai <i>et al.</i> , Human Ribosomal RNA Gene Cluster: Identification of the Proximal End Containing a Novel Tandem Repeat Sequence, <i>Genomics</i> 26:521-526 (1995).
	OS	Sambrook <i>et al.</i> , <i>Molecular Cloning: A Laboratory Manual, Volume 1</i> . 2d Ed., Cold Spring Harbor Laboratory Press,, Section 2.18 (1989)
**	OT	Samstein and Platt, "Physiologic and immunologic hurdles to xenotransplantation," <i>J. Am. Soc. Nephrol.</i> 12:182-193 (2001)
	OU	Sanes <i>et al.</i> , Use of a recombinant retrovirus to study post-implantation cell lineage in mouse embryos, <i>EMBO J.</i> 5(12):3133-3142 (1986)
	OV	Sanford, <i>et al.</i> , "General Protocol for Microcell-Mediated Chromosome Transfer", <i>Somatic Cell and Molecular Genetics</i> , 13:(3)279-284, (1987).
	OW	Sang, <i>et al.</i> , "Transgenic chickens - methods and potential application", <i>TIBTECH</i> 12:415-420.
	OX	Sanger <i>et al.</i> , Cloning in single-stranded bacteriophage as an aid to rapid DNA sequencing, <i>J. Mol. Biol.</i> 143:161-178 (1980)

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	OY	Saxon <i>et al.</i> , Selective transfer of individual human chromosomes to recipient cells, <i>Mol. Cell. Biol.</i> 1:140-146 (1985)
	OZ	Schedl <i>et al.</i> , A method for the generation of YAC transgenic mice by pronuclear microinjection, <i>Nuc. Acids Res.</i> 21:4783-4787 (1993)
	OAA	Schneider <i>et al.</i> , Procedure for production of hybrid genes and proteins and its use in assessing significance of amino acid differences in homologous tryptophan synthetase α polypeptides, <i>Proc. Natl. Acad. Sci, USA</i> 78(4):2169-2173.
	PA	Scientists report a major step in realizing the commercial potential of engineered artificial chromosomes in significant life sciences sectors, including gene therapy, <i>Chromos Molecular Systems - News Release</i> (May 29, 1996) (available at http://www.chromos.com/contents.html)
	PB	Seamark, Progress and Emerging Problems in Livestock Transgenesis: a Summary Perspective, <i>Reprod. Fertil. Dev.</i> 6:653-657 (1994).
	PC	Selig <i>et al.</i> , Regulation of mouse satellite DNA replication time, <i>EMBO J.</i> 7:419-426 (1988)
	PD	Shen <i>et al.</i> , "A structurally defined mini-chromosome vector for the mouse germ line", <i>Current Biology</i> , 10:31-34 (2000)
	PE	Sher, <i>et al.</i> , "Role of T-Cell derived cytokines in the downregulation of immune responses in parasitic and retroviral infection", <i>Immunological Reviews</i> (127)183-204, (?)
	PF	Shizuya, <i>et al.</i> , Cloning and stable maintenance of 300-kilobase-pair fragments of human DNA in <i>Escherichia coli</i> using an F-factor-based vector, <i>Proc. Natl. Acad. Sci. USA</i> , 89:8794-8797, 1992
	PG	Shwarchuk, <i>et al.</i> , Substructure in the radiation survival response at low dose: asynchronous and partially synchronized V79-WNRE cells, <i>Int. J. Radiat. Biol.</i> , 64(5):601-612, 1993
	PH	Sillar and Young, A new method for the preparation of metaphase chromosomes for flow analysis, <i>J. Histo. Cytoch.</i> , 29:74-78, 1981
	PI	Simons <i>et al.</i> , Alteration of the quality of milk by expression of sheep β -lactoglobulin in transgenic mice, <i>Nature</i> 328:530-532 (1987).
	PJ	Simons <i>et al.</i> , Gene Transfer into Sheep, <i>Bio/Technology</i> 6:179-183 (1988).
	PK	Smith <i>et al.</i> , Distinctive chromosomal structures are formed very early in the amplification of CAD genes in Syrian hamster cells, <i>Cell</i> 63:1219-1227 (1990)

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	PL	Smith, <i>et al.</i> , "Amplification of large artificial chromosomes", <i>Proc. Natl. Acad. Sci. USA</i> , 87:8242-8246, (1990).
	PM	Smith and Rubin, Functional screening and complex traits: human 21q22.2 sequences affecting learning in mice, <i>Human Mol. Genet.</i> 6(10):1729-1733 (1997)
	PN	Solus <i>et al.</i> , Characterization of single-copy probe from vicinity of centromere of human chromosome 1, <i>Somatic Cell Mol. Genet.</i> 14: 381-391 (1988)
	PO	Sternberg, Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs, <i>Proc. Natl. Acad. Sci. USA</i> 87:103-107 (1990).
**	PP	Stice <i>et al.</i> , "Clonin: New breakthroughs leading to commercial opportunities," <i>Therignology</i> 49:129-138 (1998)
	PQ	Stoehr, <i>et al.</i> , A reliable preparation of mono-dispersed chromosome suspensions for flow cytometry, <i>Histochemistry</i> , 74:57-61, 1982
**	PR	Stolzenburg <i>et al.</i> , "Structural homologies and functional similarities between mammalian origins of replication and amplification promoting sequences," <i>Chromosoma</i> 103:209-214 (1994)
	PS	Strauss, "Transfection of Mammalian Cells via Lipofection", <i>Meth Biol</i> 54:307-327, (1996).
	PT	Strojek <i>et al.</i> The use of transgenic animal techniques for livestock improvement, <u>Genetic Engineering: Principles and Methods</u> 10:221-246, (1988).
	PU	Stubblefield and Pershouse, Direct formation of microcells from mitotic cells for use in chromosome transfer, <i>Somatic Cell and Molec. Genet.</i> 18:485-491 (1992)
	PV	Stubblefield and Wray, Isolation of specific human metaphase chromosomes, <u>Bioch. and Biophys. Res. Commun.</u> , 83(4):1404-1414, 1978
	PW	Sugden <i>et al.</i> , A vector that replicates as a plasmid and can be efficiently selected in B-lymphoblast transformed by Epstein-Barr virus, <i>Mol. Cell. Biol.</i> 5:410-413 (1985)
	PX	Summers <i>et al.</i> , "Interspecific Chimerism-The Characterization And Immunological Responsiveness of <i>Bos Taurus</i> - <i>Bos Indicus</i> Haemopoietic Chimeras Produced By Embryo Transfer", <i>Aust. J. Exp. Biol. Med. Sci.</i> , 62 (Pt1): 27-45 (1984)
	PY	Sumner, A simple technique for demonstrating centromeric heterochromatin, <i>Cell Res.</i> 75:304-306 (1972)
	PZ	Sumner, Scanning electron microscopy of mammalian chromosomes from prophase to telophase. <i>Chromosoma</i> 100:410-418 (1991)

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	PAA	Sun <i>et al.</i> , Human artificial episomal chromosomes for cloning large DNA fragments in human cells, <i>Nature Genetics</i> 8:33-41 (1994).
	PBB	Szybalska, <i>et al.</i> , "DNA-Mediated heritable transformation of biochemical trait", <i>Proc. N.A.S.</i> 48:2026-2034, (1962).
	QA	Szybalsky <i>et al.</i> Genetic studies with human cell lines, <i>Natl. Cancer Inst. Monogr.</i> 7:75-89 (1982)
	QB	Takeda <i>et al.</i> , "Construction of a bovine yeast artificial chromosome (YAC) library", <i>Animal Genetics</i> , 29:216-219 (1998)
	QC	Takeda <i>et al.</i> , Expression of SV40- <i>lacZ</i> Gene in Mouse Preimplantation Embryos After Pronuclear Microinjection, <i>Molecular Reproduction and Development</i> 30:90-94 (1991).
	QD	Tamura <i>et al.</i> , Microinjection of DNA into early embryo of <i>Bombyx mori</i> , <i>Bio Ind.</i> 8:26-31 (1991) (Chemical Abstracts # 114(21)200502z)
	QE	Taylor <i>et al.</i> , Analysis of extrachromosomal structures containing human centromeric alphoid satellite DNA sequences in mouse cells, <i>Chromosoma</i> 105: 70-81 (1996)
	QF	Taylor <i>et al.</i> , Analysis of extrachromosomal structures containing human centromeric alphoid satellite DNA sequences in mouse cells, <i>Chromosoma</i> 105: 70-81 (1996)
	QG	Teifel, <i>et al.</i> , "New Lipid Mixture for Efficient Lipid-Mediated Transfection of BHK Cells", <i>Biotechniques</i> 19:79-82, (1995).
**	QH	Telenius <i>et al.</i> , "Stability of a functional murine satellite DNA-based artificial chromosome across mammalian species," <i>Chromosome Research</i> 7:3-7 (1999)
	QI	Thoraval <i>et al.</i> , A methylated human 9-kb repetitive sequence on acrocentric chromosomes is homologous to a subtelomeric repeat in chimpanzees, <i>Proc. Natl. Acad. Sci.</i> 93:4442-4447 (1996).
	QJ	Toledo <i>et al.</i> , Co-amplified markers alternate in megabase long chromosomal inverted repeats and cluster independently in interphase nuclei at early steps of mammalian gene amplification, <i>EMBO J.</i> 11:2665-2673 (1992)
	QK	Tomizuka <i>et al.</i> , Functional expression and germline transmission of a human chromosome fragment in chimaeric mice, <i>Nature Genetics</i> 16:133-143 (1997)
	QL	Tonghua <i>et al.</i> , Effects of antisense epidermal growth factor and its receptor retroviral expression vectors on cell growth of human pancreatic carcinoma cell line, <i>Chin. Med. J. (Beijing, Engl. Ed.)</i> 108:653-659 (1995)

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	QM	Tora, <i>et al.</i> , "Cell-specific activity of a GGTC A half-palindromic oestrogen-responsive element in the chicken ovalbumin gene promoter", <i>The EMBO Journal</i> 7:(12)3771-3778, (1988).
	QN	Torczynski <i>et al.</i> , Cloning and sequencing of a human 18S ribosomal RNA gene, <i>DNA</i> 4 (4): 283-291 (1985)
	QO	Toye <i>et al.</i> , "A yeast artificial chromosome (YAC) library containing 10 haploid chicken genome equivalents", <i>Mammalian Genome</i> , 8:274-276 (1997)
	QP	Transfection of DNA into eukaryotic cells, <i>Current Protocols in Molecular Biology</i> , Vol. 1, Wiley Inter-Science, Supplement 14, Unit 9.1.1-9.1.9 (1990)
	QQ	Traver <i>et al.</i> , Rapid screening of a human genomic library in yeast artificial chromosomes for single-copy sequences, <i>Proc. Natl. Acad. Sci. USA</i> 86:5898-5902 (1989)
	QR	Tyler-Smith <i>et al.</i> , Mammalian chromosome structure, <i>Curr. Opin. Genet. Devt.</i> 3: 390-397 (1993)
	QS	Uchimiya <i>et al.</i> , Transgenic plants, <i>J. Biotechnol.</i> 12: 1-20 (1989)
**	QT	Van Beusechem and Valerio, "Gene transfer into hematopoietic stem cells of nonhuman primates," <i>Hum. Gene Ther.</i> 7(14):1649-1668 (1996)
	QU	Van den Engh, <i>et al.</i> , Improved resolution of flow cytometric measurements of Hoechst-and Chromomycin-A3-stained human chromosomes after addition of citrate and sulfite, <i>Cytometry</i> , 9:266-270, 1988
	QV	Van den Engh, <i>et al.</i> , Preparation and bivariate analysis of suspensions of human chromosomes, <i>Cytometry</i> , 6:92-100, 1985
	QW	Van den Engh, <i>et al.</i> , Preparation of chromosomes suspensions for flow cytometry, <i>Cytometry</i> , 5:108-117, 1984
	QX	Van Dilla, <i>et al.</i> , Human chromosome-specific DNA libraries: Construction and availability, <i>Bio/Technology</i> , 4:537-552, 1986
	QY	Velander <i>et al.</i> , High-level expression of a heterologous protein in the milk of transgenic swine using the cDNA encoding human protein C, <i>Proc. Natl. Acad. Sci. USA</i> 89:12003-12007 (1992).
	QZ	Verma and Somia, Gene Therapy – promises, problems and prospects, <i>Nature</i> 389:239-242 (1997)
	QAA	Vig and Richards, Formation of primary constriction and heterochromatin in mouse does not require minor satellite DNA, <i>Exp. Cell Res.</i> 201:292-298 (1992)

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	QBB	Vile, R.G., Abstract of: Cancer Gene Therapy: Hard Lessons and New Courses, <i>Gene Therapy</i> 7(1):2-8 (2000)
	RA	Vissel <i>et al.</i> , A satellite III sequence shared by human chromosomes 13, 14, and 21 that is contiguous with α satellite DNA, <i>Cytogenet Cell Genet</i> 61:81-86 (1992).
	RB	Voet, D. and Voet, J., BOOK: <u>Biochemistry</u> , Chapter 33, "Eukaryotic Gene Expression", John Wiley & Sons, New York, p. 1033 (1990)
	RC	Vos JM, The simplicity of complex MACs, <i>Nature Biotechnology</i> 15:1257-1259 (1997)
	RD	Wada <i>et al.</i> , "Chimeric YACs were generated at unreduced rates in conditions that suppress coligation", <i>NAR</i> , 22:1651-1654 (1994)
	RE	Wall <i>et al.</i> , High-level synthesis of a heterologous milk protein in the mammary glands of transgenic swine, <i>Proc. Natl. Acad. Sci. USA</i> 88:1696-1700 (1991).
	RF	Wall <i>et al.</i> , Making Transgenic Livestock: Genetic Engineering on a Large Scale, <i>Journal of Cellular Biochemistry</i> 49:113-120 (1992).
	RG	Wall, Transgenic Livestock: Progress and Prospects for the Future, <i>Theriogenology</i> 45:57-68 (1996).
	RH	Wang and Fedoroff, Banding of human chromosomes treated with trypsin, <i>Nature</i> 235:52-54 (1972)
	RI	Waring, <i>et al.</i> , "Nucleotide sequence repetition: A rapidly reassociating fraction of mouse DNA", <i>Science</i> 154:791-794, (1966).
	RJ	Waye <i>et al.</i> , Human β satellite DNA: Genomic organization and sequence definition of a class of highly repetitive tandem DNA, <i>Proc. Natl. Acad. Sci.</i> 86:6250-6254 (1989).
	RK	Weber <i>et al.</i> , Formation of genes coding for hybrid proteins by recombination between related, cloned genes in <i>E. coli</i> , <i>Nuc Acids Res</i> , 11(16):5661-5669 (1983).
**	RL	Wegner <i>et al.</i> , "Cis-acting sequences from mouse rDNA promote plasmid DNA amplification and persistence in mouse cells: implication of HMG-I in their function", <i>Nuc. Acids Res.</i> , 17(23):9909-9932 (1989)
**	RM	Wegner <i>et al.</i> , "An Amplification-Promoting Sequence from Mouse Genomic DNA: Interaction with a Trans-Acting Factor That Also Affects Gene Expression", 9(5):311-321 (1990)
	RN	Weinberg, Tumor suppressor genes, <i>Science</i> 254:1138-1146 (1991)

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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17084-004017	Application No. 10/808,689
List of Patents and Publications for Applicant's Information Disclosure Statement (37 CFR §1.98(b))				Applicant Gyula Hadlaczky	
				Filing Date March 24, 2004	Group Art Unit 1632

Examiner Initial	Desig. ID	Document
	RO	Wells et al., Production of cloned lambs from an established embryonic cell line: A comparison between in vivo- and in vitro-matured cytoplasts, <i>Biology of Reproduction</i> 57:385-390 (1997)
	RP	White et al., A frame-shift mutation in the cystic fibrosis gene, <i>Nature</i> 344:665-667 (1990)
	RQ	Why are MACs in vogue, <i>Chromos Molecular Systems - News Release</i> (May 29, 1996) (available at http://www.chromos.com/contents.html)
	RR	Wigler et al., DNA-mediated transfer of the adenine phosphoribosyltransferase locus into mammalian cells, <i>Proc. Natl. Acad. Sci. USA</i> 76:1373-1376 (1979)
**	RS	Willard et al. "Artificial Chromosomes Coming to Life," <i>Science</i> 290:1308-1309 (2000)
	RT	Willard and Waye, Hierarchical order in chromosome specific human alpha satellite DNA, <i>Trends Genet.</i> 3:192-198 (1987)
	RU	Willard, Chromosome manipulation: a systematic approach toward understanding human chromosome structure and function, <i>Proc. Natl. Acad. Sci. USA</i> 93:6847-6850 (1996)
	RV	Williams and Blattner, Construction and characterization of the hybrid bacteriophage lambda charon vectors for DNA cloning, <i>J. Virol.</i> 29:555-575 (1979)
	RW	Wilmut, et al., Viable offspring derived from fetal and adult mammalian cells, <i>Nature</i> , 385:810-813, 1997
**	RX	Wolf et al., "Nuclear transfer in mammals: Recent developments and future perspectives," <i>Journal of Biotechnology</i> , 65:p.99-110 (1998)
	RY	Wong et al., Sequence organisation and cytological localization of the minor satellite of mouse, <i>Nucl. Acids Res.</i> 16:11645-11661 (1988)
	RZ	Woods et al., "A Mule Cloned from Fetal Cells by Nuclear Transfer", <i>Scienceexpress published on line</i> , May 2003
	RAA	Worton et al., Human Ribosomal RNA Genes: Orientation of the Tandem Array and Conservation of the 5' End, <i>Science</i> 239:64-68 (1988).
	SA	Wright et al., High level expression of active human alpha-1-antitrypsin in the milk of transgenic sheep, <i>Bio/Technology</i> 9:830-834 (1991).
	SB	Yamada et al., Multiple chromosomes carrying tumor suppressor activity for a uterine endometrial carcinoma cell line identified by microcell-mediated chromosome transfer, <i>Oncogene</i> 5:1141-1147 (1990)
**	SC	Yanagimachi et al., "Cloning: Experience from the mouse and other animals," <i>Mol. Cel.. Endocrin.</i> 187:241-248 (2002)

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	SD	Yates <i>et al.</i> , A <i>cis</i> -acting element from the Epstein-Barr viral genome that permits stable replication of recombinant plasmids in latently infected cells, <i>Proc. Natl. Acad. Sci. USA</i> 81:3806-3810 (1984)
	SE	Yates <i>et al.</i> , Stable replication of plasmids derived from Epstein-Barr virus in various mammalian cells, <i>Nature</i> 313:812-815 (1985)
	SF	Yeung <i>et al.</i> , Human CD4-major histocompatibility complex class II (Dqw6) transgenic mice in an endogenous CD4/CD8-deficient background: reconstitution of phenotype and humano-restricted function, <i>J. Exp. Med.</i> 180:1911-1920 (1994)
	SG	Yoon, <i>et al.</i> , Mapping of replication initiation sites in human ribosomal DNA by Nascent-Strand abundance analysis, <i>Mol. Cell. Bio.</i> , p. 2482-2489, May 1995
	SH	Yurov, Collection of α -satellite DNA probes: Highly polymorphic markers for centromeric regions of all human chromosomes (A2298), <i>Cytogenet. Cell Genet.</i> 51:1114 (1989)
	SI	Yurov, Identification and characterization of two distinct polymorphic α -satellite DNA sequences from centromeric regions of the chromosomes 13 and 21 (A2299), <i>Cytogenet. Cell Genet.</i> 51:1114 (1989)
	SJ	Zakian, "Telomeres: Beginning to Understand the End", <i>Science</i> , 270:1601-1607 (1995)
	SK	Zang, <i>et al.</i> , "Production of recombinant proteins in Chinese hamster ovary cells using a protein-free cell culture medium", <i>Bio/Technology</i> 13:389-392, (1995).
	SL	Zemskova and Escher, IAP DNA sequences and mouse chromosome instability, Loma Linda University APC Conference, March, 1997
	SM	Zhang, <i>et al.</i> , "T-Cell cytokine responses in human infection with Mycobacterium tuberculosis", <i>Infection and Immunity</i> , p. 3231-3234, (1995).
	SN	Zhong <i>et al.</i> , "Zebrafish Genomic Library in Yeast Artificial Chromosomes", <i>Genomics</i> , 48:136-138 (1998)

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